

## **CLAIMS**

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

1. An autologous platelet gel wherein all of the blood components which form the platelet gel are isolated from the individual to whom the platelet gel is to be applied to, comprising:

a platelet gel having a predetermined geometric shape corresponding to a cavity in the individual to whom said platelet gel is to be applied to.

- 2. The autologous platelet gel of claim 1, wherein said predetermined geometric shape is created by gelling said autologous platelet gel in a mold having the desired shape.
- 3. The autologous platelet gel of claim 2, wherein said mold is constructed of a wettable or non-wettable interior surface.
- 4. The autologous platelet gel of claim 3, wherein said interior surface of said mold is glass.
- 5. The autologous platelet gel of claim 3, wherein said interior surface of said mold is plastic.
- 6. The autologous platelet gel of claim 3, wherein said interior surface of said mold is aluminum.
- 7. The autologous platelet gel of claim 3, wherein said mold has a basic conical shape.
  - 8. The autologous platelet gel of claim 3, wherein said mold has a rod like shape.
  - 9. The autologous platelet gel of claim 1, wherein said mold has a rectangular shape.
- 10. The autologous platelet gel of claim 7, wherein said conical shaped autologous platelet gel is used as a plug in a hole in the gum created from an extracted tooth.
- 11. The autologous platelet gel of claim 8, wherein said rod shaped autologous platelet gel is used as a plug in a hole in bone.



further comprises bone fragments or bone augmenting materials.

12.

- The autologous platelet gel of claim 11, wherein said autologous platelet gel
- 13. A method of making an autologous platelet gel having a predetermined geometric shape, comprising:

introducing thrombin and an inactive blood component isolated from the individual to whom the platelet gel is to be applied into a mold having the desired geometric shape;

allowing said thrombin and said inactive blood component to set in said mold; and removing said autologous platelet gel from said mold.

- 14. The method of claim 13, wherein said inactive blood component is platelet rich plasma.
- 15. The method of claim 13, wherein said inactive blood component is platelet poor plasma.
- 16. The method of claim 13, wherein said autologous platelet gel is inserted into a cavity in the body of the individual from whom the thrombin and inactive blood component were isolated.
- 17. The method of claim 13, further comprising introducing any organic or inorganic material.